**LM 10. Mobile Device Security**

1. **LM10. Student Learning Outcomes**

After completing this module, a student will be able to:

* Describe the Google Android security architecture
* Discuss Android security challenges
* Discuss the exploitation tools for Android
* Describe Apple iOS security architecture
* Discuss iOS security challenge
* Discuss BYOD and its security implication

1. **LM10. Learning Material & Study Guide**
   * Describe the Google Android security architecture

<https://source.android.com/security/>

* + Discuss Android security challenges

<https://searchmobilecomputing.techtarget.com/tip/Top-five-Android-device-management-security-challenges>

* + Discuss the exploitation tools for Android (just need to know the general functionality of each listed tool).

Android SDK: <https://developer.android.com/studio/index.html>

AndroRAT: <https://geekviews.tech/androrat/>

Android Framework for Exploitation: <http://airodump.net/android-framework-for-exploitation-afe-an-efficient-framework-for-anroid-exploitation/>

* + Describe Apple iOS security architecture (page 4, security architecture).

<https://www.apple.com/business/docs/iOS_Security_Guide.pdf>

* + Discuss iOS security challenge
  + <https://tidbits.com/2010/08/09/apples-ios-security-challenges-and-advantages/>
  + Discuss BYOD and its security implication

<https://digitalguardian.com/blog/ultimate-guide-byod-security-overcoming-challenges-creating-effective-policies-and-mitigating>